

Title (en)

Multicore fiber transmission systems and methods

Title (de)

Mehrkerniges Faserübertragungssystem und -verfahren

Title (fr)

Systèmes et procédés de transmission par fibres multi-c'ur

Publication

EP 2365654 B1 20190529 (EN)

Application

EP 11157677 A 20110310

Priority

- US 31249710 P 20100310
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Abstract (en)

[origin: EP2365654A2] An optical data link includes first and second pluralities of transmission devices, at least one of which is configured as an array. A multichannel transmission link has a first end connected to the first plurality of transmission devices and a second end connected to the second plurality of transmission devices so as to form a plurality of parallel transmission channels therebetween. The multichannel transmission link includes a multicore fiber with a plurality of individual cores having a configuration matching the array configuration of the at least one plurality of transmission devices. The multicore fiber has an endface connected directly to the at least one plurality of transmission devices, with the individual cores of the multicore fiber aligned with respective devices in the at least one plurality of transmission devices. Further described are access networks and core networks incorporating a transmission link comprising at least one span of a multicore fiber.

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP3166237A1; CN104583823A; CN103095372A; EP2903185A1; EP2725729A1; ES2552845A1; CN113603351A; CN102916747A; EP2903191A1; US2023057448A1; US11888522B2; WO2017078173A1; WO2013052268A1; WO2014031289A1; WO2015157990A1; US8867125B2; US10020888B1; US9712242B2; US9917672B2; US10560189B2; WO2014064241A1; WO2016181006A1; WO2014019797A1; WO2015018947A1

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